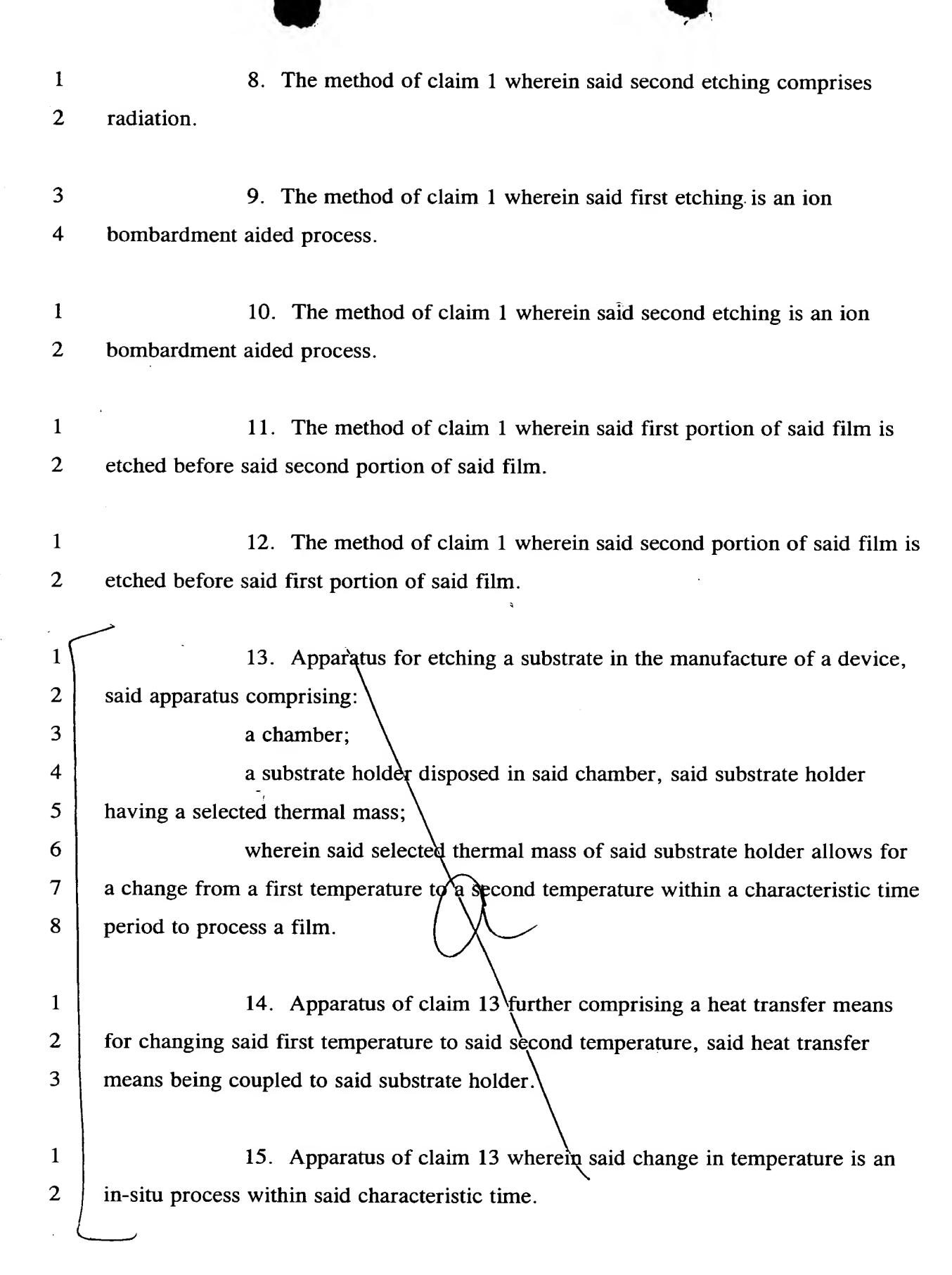
## WHAT IS CLAIMED IS:

1	1. A method of etching a substrate in the manufacture of a device,
2	said method comprising steps of:
3	placing a substrate having a film thereon on a substrate holder in a
4	chamber, said substrate holder having a selected thermal mass; and
5	performing a first etching of a first portion of said film at a first
6	temperature and performing a second etching of a second portion of said film at a
7	second temperature, said first temperature being different from said second
8	temperature;
9	wherein said selected thermal mass allows a change from said first
10	temperature to said second temperature within a characteristic time period to process
11	said film.
1	2. The method of claim 1 wherein said first temperature is changed to
2	said second temperature by a heat transfer means coupled to said substrate holder.
1	3. The method of claim 1 wherein said change in temperature is an in-
2	situ process during said first etching step and said second etching step.
1	4. The method of claim 1 wherein said first etching and said second
2	etching are conducted in a substantially constant plasma environment.
1	5. The method of claim 1 wherein said first temperature is higher than
2	said second temperature.
1	6. The method of claim 1 wherein said first temperature is lower than
2	said second temperature.
1	7. The method of claim 1 wherein said first etching comprises
2	radiation.



1	16. Apparatus of claim 13 wherein said chamber provides a
2	substantially constant plasma environment.
1	17. Apparatus of claim 13 wherein said first temperature is higher
2	than said second temperature.
1	18. Apparatus of claim 13 wherein said first temperature is lower than
2	said second temperature.
1	19. Apparatus of claim 13 wherein said chamber provides radiation.
1	20. Apparatus of claim 13 wherein said chamber provides an ion
2	bombardment aided process.